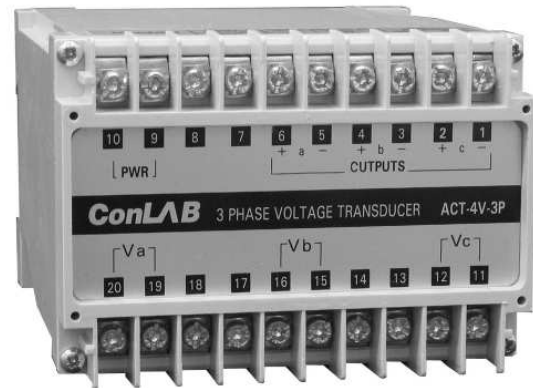


## 3-PHASE CURRENT AND VOLTAGE ——— ACT-4I3P / ACT-4V3P TRANSDUCER

- ❑ ACCURACY OF  $\pm 0.1\%$
- ❑ AC CURRENT INPUT
- ❑ AC VOLTAGE INPUT
- ❑ COMPLETE ISOLATION
- ❑ LOW COST
- ❑ 3 YEAR WARRANTY



The ACT-4I3P and the ACT-4V3P isolated four-wire transducers accept AC current/voltage input signals and generate a proportional 4-20mA process output current.

Accurate, full-wave squaring circuitry is applied for true conversion of the AC input signal into an accurate isolated output.

For complete safety, internal transformers isolate the input and enable the ACT-4I3P and the ACT-4V3P to withstand large momentary input signals.

Complete input to output galvanic isolation, high surge current capacity and high output signal to noise ratio, makes the Series 4 highly immune to ground loop signals and RFI.

Wide input current ranges are obtained by means of changing one resistor for coarse range setting. This resistor is located on the inner printed circuit board.

Fine tuning is achieved via the "Zero" and "Span" multi-turn potentiometers located on the inner printed circuit board.

The ACT-4I3P and the ACT-4V3P units can be powered either by 220/110Vac or by 22 - 66Vdc.

The ACT-4x3P transducers are housed in a polycarbonate plastic enclosure mounted on a standard DIN rail side by side, with no wasted space in high density installations.

**ACT-4V3P**

INPUT: AC Voltage

INPUT SPAN (factory set): 0 - 600 Vac RMS

INPUT BURDEN: 0.25 VA at 230 Vac input  
0.15 VA at 120 Vac

ISOLATION:  
Signal and Power Inputs: 4KV RMS/1 minute

WEIGHT: 0.9 Kg

**ACT-4I3P**

INPUT: AC current

INPUT SPAN: 0 - 1 to 0 - 10 Aac (RMS)

INPUT BURDEN: 0.26 VA at 5 Aac input

INRUSH CURRENT: 40 Aac (RMS) maximum for 8 seconds  
75 Aac (RMS) maximum for 1 second  
every 10 minutes.

ISOLATION:  
Current input: 2.5KV RMS/1 minute  
Power input: 4KV RMS/1 minute

WEIGHT: 0.9 Kg

OUTPUT: DC current

CURRENT RANGE: 0-20 mA / 4-20 mA  
28 mA (limited)

SUPPLY VOLTAGE: DC or AC versions

DC SUPPLY: 22-66 Vdc

DC CURRENT DRAW: 26 mA at 20 mA output

AC SUPPLY (factory set): 115/230  $\pm$ 15% Vac

POWER CONSUMPTION: 1.9 VA

SUPPLY AND LOAD VARIATION EFFECT:  
< 0.03% of span for full range

LOAD RESISTANCE: 600  $\Omega$  for nominal AC supply  
550  $\Omega$  for minimum AC supply  
 $R=(V_{sup}-14)/0.02$  limited to 600 $\Omega$

RESPONSE TIME: 220 msec (0-98%)

OUTPUT RIPPLE: Better than  $\pm$ 0.1% of span (RMS)

ACCURACY (2-100% of input span):  $<\pm$ 0.1% of span  
typical for pure sinusoidal input  
<0.2% of span maximum

FREQUENCY: 40 - 60 Hz

ADJUSTABILITY:  
Zero:  $\pm$ 35% of span (minimum)  
Span:  $\pm$ 25% of span (minimum)

CMR: 122 dB typical 117 dB minimum

TEMPERATURE STABILITY:  $\pm$ 0.01% of span /1 $^{\circ}$ K

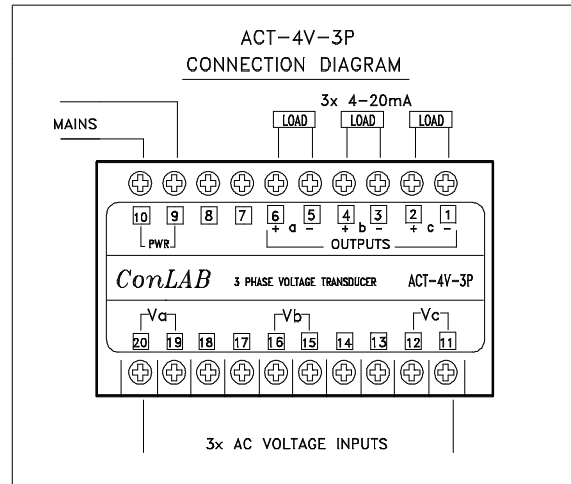
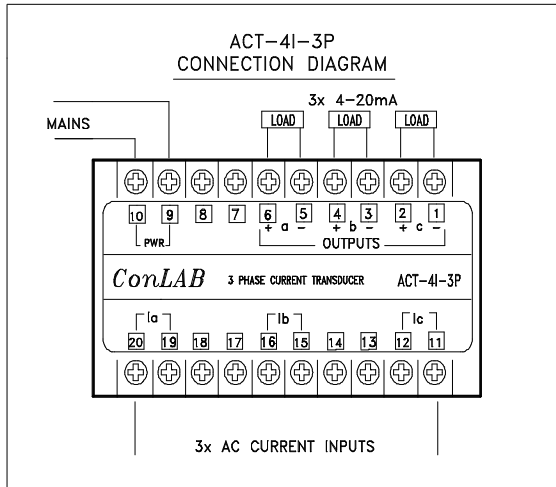
OPERATION TEMPERATURE: -20 to 70 $^{\circ}$ C standard.  
Option: -30 to +85 $^{\circ}$ C

HUMIDITY: 5-95% relative, non condensed

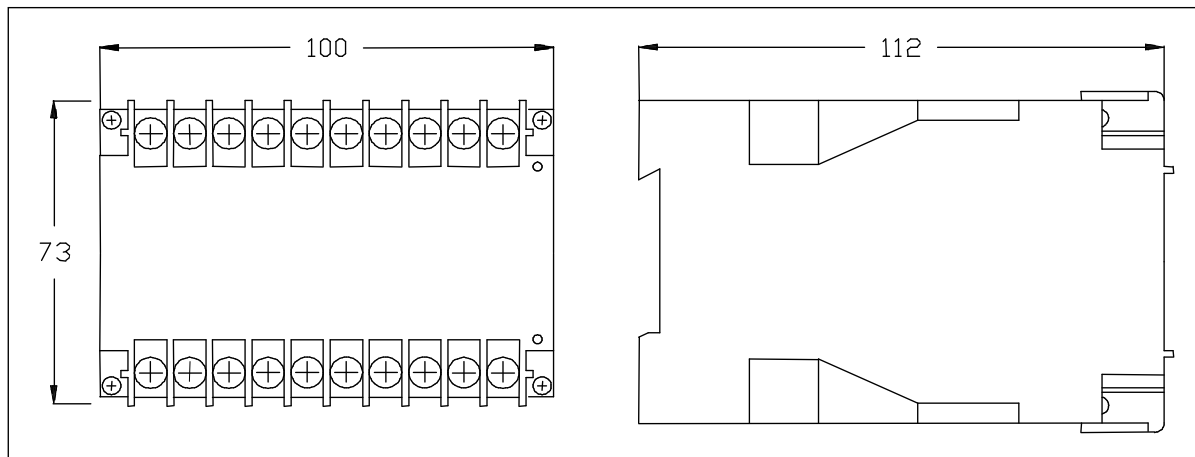
HOUSING: Plastic polycarbonate  
Box: According to IP-40  
Terminals: According to IP-20

MOUNTING: Standard 35 mm DIN rail

**Connection Diagrams**

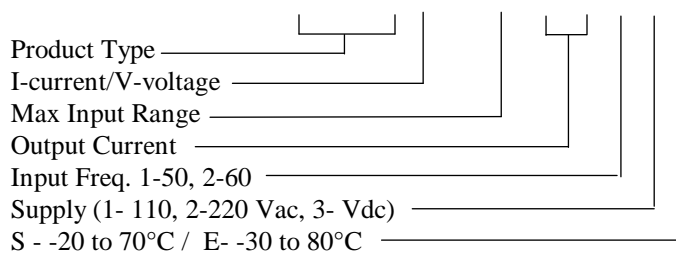


**Dimensions**



**Ordering Information**

ACT-4-I-3P-5- 4-20-1-2-S



data subject to change without notice

**ConLAB**  
Control Laboratories Ltd.